

BEETLE /iSCAN Tower Line 150

Self Checkout System

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Introduction

The BEETLE /iSCAN Tower Line 150 is a terminal that offers a customer to handle the purchase by scanning, bagging and paying the items on his own. In case of problems an attendant is available for quick support.

BEETLE /iSCAN Tower Line 150 offers the following main functions:

- Record function - records items, the customer wants to buy
- Control function - secures the recording of all items
- Payment function - payment may be effected by banking cards, customer cards and accounts, coupons, bank notes or coins. Cash return uses bank notes and coins.

About this manual

This manual refers to technically trained personnel only.

It provides all necessary site preparation information for installing BEETLE /iSCAN Tower Line 150 at your site.



Notes are marked by this symbol.



Caution! Identifies action requiring caution.

The responsibility for all technical and special prerequisites for installation of BEETLE /iSCAN Tower Line 150 is borne by the customer. A detailed list of customer responsibilities is given in this manual.

Installation as well as connection of BEETLE /iSCAN Tower Line 150 may only be executed by technically trained personnel.

The safety instructions given in this document should be strictly followed when handling BEETLE /iSCAN Tower Line 150. Further safety, installation, and maintenance instructions can be found in the manuals supplied with the components.

In case of doubts or questions please contact Wincor Nixdorf International (WN).

Warranty

Wincor Nixdorf guarantees generally a warranty engagement for 12 months beginning with the date of delivery. This warranty engagement covers all damages which occur despite a normal use of the product.

Damages because of

- improper or insufficient maintenance,
- improper use of the product or unauthorized modifications of the product,
- inadequate location or surroundings

will not be covered by the warranty.

For further information on the stipulation consult your contract.

All parts of the product which are subject to wear and tear are not included in the warranty engagement. For detailed warranty arrangements please consult your contract documents.

ESD (Electrostatic Sensitive Devices)



Assemblies containing electrostatic sensitive devices (ESD) *may* be labeled with this sticker.

When installing an assembly or drive, please follow the guidelines below, which apply to all electro-static sensitive devices (ESD):

- Make sure you are not carrying a static charge before working with components marked as ESD by first touching a grounded object (such as a radiator from a hot water heating system).
- All tools and devices you use must be free from static charges.
- Always unplug the power cord before installing or removing any assemblies.
- Always handle assemblies by their edges.
- Never touch the terminal pins of the circuits on an assembly.

Important Notes

Appliances supplied by Wincor Nixdorf International GmbH comply with the respective safety regulations for data-processing installations and information technology installations, including electrical office equipment for use within an office environment.



Whenever work of any kind is done on the device, as well as when data cables are plugged and unplugged, the device must be completely disconnected from the line voltage.

If UPS is installed, you must switch off this too, to separate BEETLE /iSCAN Tower Line 150 from power completely.

- Appliances may only be repaired by authorized technicians.
- Unauthorized opening of the housing or inexperienced repairs can result not only in considerable personal danger, but will also invalidate your warranty and liability protection.
- Always consult the enclosed documentation before doing any work with this appliance.
- If this device is brought from a cold environment into a heated place of business, condensation may occur. Before operation, the device must be completely dry. Therefore, an acclimatization period of at least two hours must be adhered to.
- Always lay the supply leads and cables in such a way that they cannot be stepped on or tripped over.
- Only touch green marked handles and knobs for moving parts.
- Exchange damaged cables immediately.
- In order to completely disconnect the device from the power source, turn the device off and use the separator in the fuse box\building installation.
- Make sure that no objects (such as paper clips) can reach the interior of the device, since electrical shocks or short-circuits could result.
- To avoid overheating of the power supply unit. Ensure that the BEETLE /iSCAN Tower Line 150 receives adequate ventilation.
- During an electrical storm, data cables should not be plugged in or unplugged.
- Keep the device away from airstreams/ventilation, vibrations, dust, humidity and heat.
- Ensure that used parts are disposed of in *an environmentally friendly manner*.
- In case of an accident (such as a damaged housing, entry of liquids or foreign objects), switch the device off and use the separator to completely remove the device from power.
- BEETLE /iSCAN Tower Line 150 is the result of state-of-the-art technology. Therefore, please also ensure that the BEETLE /iSCAN Tower Line 150 is operated under modern building and

technical conditions in order to ensure flawless and efficient operation. The appliance and other information technology hardware should only be connected to electrical supply networks with a separate protective earth wire (PE). This type of electrical supply network is referred to as a TN-S network. Do not use PEN conductors. Also follow the recommendations set forth in DIN VDE 0100 Part 540, Appendix C2 as well as EN50174-2, §5.4.3. This will help prevent malfunctions.

- National Electrical Code ANSI/NFPA 70-2005
- Canadian Electrical Code, Part I, CSA C22.1-02
- When working on the cutter of the printer, the device must be turned off.
- Always keep the ventilation slots free of obstruction to ensure adequate air circulation and avoid overheating.
- Transport the appliance only in its original packaging (to protect it against knocks and bumps).
- If a lithium battery is supplied with the appliance, ensure that the battery is replaced with an equivalent type. Otherwise there is danger of explosion! Lithium batteries may only be replaced with identical types or other types recommended by the manufacturer.
- Batteries must be disposed of according to local regulations on the disposal of special waste.

- **Connecting Peripherals**

Use only shielded cables when connecting devices to the system to ensure compliance with international Rules and Regulations for radiated emission as well as to achieve a high immunity against external disturbances.

- **Coin Module**

Care should be taken to keep fingers clear of the hinged chassis panels when dumping coins or rotating the hoppers to gain access to the inside of the unit. This area is a potential pinch hazard and may cause significant injury when using hoppers filled with coins.

Wincor Nixdorf International will not be held liable for damages and/or personal injuries brought on by incorrect operation and maintenance practices.

Only a qualified service technician should replace an individual hopper assembly or remove the PCB protective shield to access internal components. Ignoring this warning may void the products warranty.



Critical Shock Hazards - indicates potentially lethal voltages are present.

The coin recycling unit weighs approximately 24 kg and 210 kg (filled with coin). When transporting the unit, avoid bumping or dropping it, which could damage the unit. The coin recycling unit should be emptied before transporting. Any drop on a body part could cause serious personal injury.

The collection cassette of the note recycling unit weighs approximately 7,5 kg w/o notes. Any drop on a body part could cause serious personal injury.

Note on Laser

The barcode readers contain a light-emitting diode (LED), classified according to LASER CLASS 1:

- IEC 60825-1:1993+A1:1997+A2:2001
- EN 60825-1:1994+A11:1996+A2:2001

Tools you need

Keep the following tools at hand for working on the BEETLE /iSCAN Tower Line 150:

Socket wrench	5 mm
Open-end wrench	5.5 mm
Allen screw	H3, H4, H5
Jay wrench	5,5, 7, 8 mm and 17 mm (adjustment)
Flathead screwdrivers (two sizes)	e.g. 1.0 x 6 0.6 x 4.5
Phillips screwdrivers	PH0, 1 and 2
Flathead screw driver	0,5 x 35 mm
Torx screwdrivers (hexagon round screwdrivers)	6, 7, 8, 10, 15, 20 and 25 mm
Antistatic kit	
Air lever	

Customer Requirements

Before BEETLE /iSCAN Tower Line 150 installations can be started, the customer is held responsible to provide the following:



If more than ten Self Checkout Systems (Lanes) are to operate in one configuration they have to be connected to a network via an ISCAN server with a performance matching the requirements.

- Appropriate drawings concerning location of the equipment as well as site wiring (power and communications, paths and lengths). Location of other equipment that may generate electrical noise, electromagnetic interference, or heat
- Provision and installation of all communication cables wall jacks, special connectors and associated hardware
- Provision and installation of necessary power distribution boxes, conduits, grounds, lightning protection devices, and associated hardware
- Ensure that all applicable codes, regulations, and laws (including, but not limited to, electrical, building, safety, and health) are adhered to
- Provision and installation of auxiliary power or other equipment as required
- Provision of storage or service as required
- Provision of a level floor to locate the BEETLE /iSCAN Tower Line 150. The system has to be stable and must not tilt. The maximum incline must not exceed 2%. The feet of the unit can overcome a height difference of up to 10mm.
- Provision of an installation location that will prevent the security scale (optional) from being influenced by heavy air movement and resulting weight irritations. If this is not possible the following measure needs to be applied:
 - Build a windshield around the scale
- Provision and installation of floor coverings and environmental systems that limit or control static electricity build-up and discharge
- Provision of appropriate equipment for the remote support

The customer is responsible for relocating the Self-Checkout equipment (check stand and components) to the final placement/installation position.

Keep the Wincor Nixdorf equipment area free from ventilation, dust, smoke, lint and other particles. Restrict smoking, eating, and drinking around the equipment. Avoid locating the equipment near other machines that generate ink, carbon and paper dust particles.



Please note that Wincor Nixdorf will not take over any warranty/liability in case the technical and environmental requirements are not met.

Components (Device with bi-optical Scanner)



1	Screen	5	Coupon In	9	Coin In	13	Housing Lock
2	Attendant Lock	6	Housing Lock	10	Coin Out	14	Pole Light
3	Receipt Printer	7	Scanner / Scale / EAS	11	Note In/Note out	15	Bag Holders
4	Basket Shelf	8	Card Reader (optional)	12	Pin Pad*	16	Security Scale

* The Pin Pad is customer specific, different models and positions are possible

- Different Hand Held Scanners may be used
- Different Card Readers in different positions are possible

Components (Device with vertical Scanner)

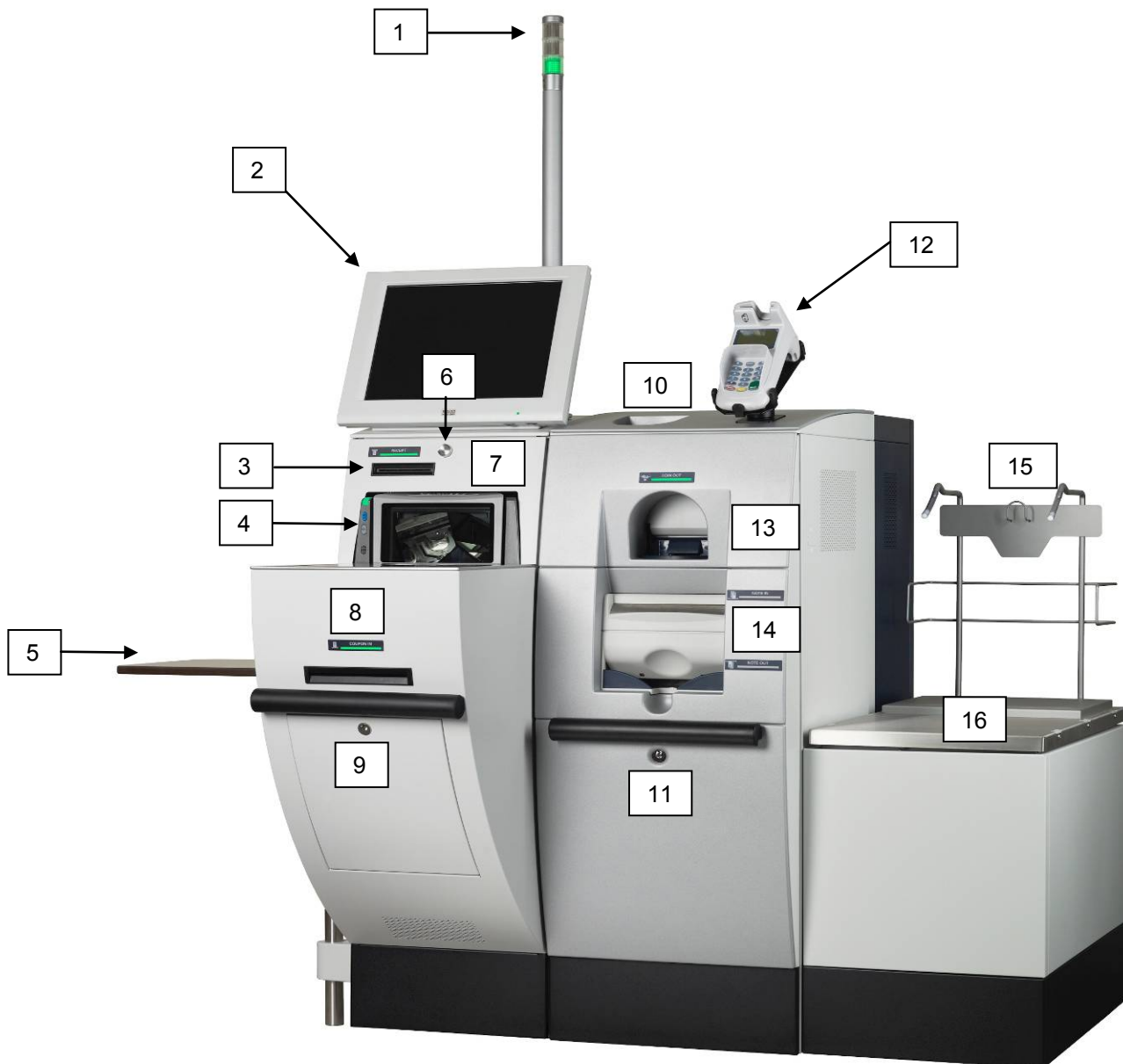


1	Screen	5	Coin Out	9	Scanner /EAS	13	Pin Pad*
2	Coin In	6	Note In/Note out	10	Receipt	14	Pole Light
3	Basket Shelf	7	Card Reader (optional)	11	Coupon In	15	Bag Holders
4	Housing Lock	8	Attendant Lock	12	Housing Lock	16	Security Scale

* The Pin Pad is customer specific, different models and positions are possible

- Different Hand Held Scanners may be used.
- Different Card Readers in different positions are possible

Components (CINEO 6010)



1	Pole Light	5	Basket Shelf	9	Housing Lock	13	Coin Out
2	Screen	6	Attendant Lock	10	Coin In	14	Note In/Note Out
3	Receipt	7	Card Reader (optional)	11	Housing Lock	15	Bag Holders
4	Scanner/EAS	8	Coupon In	12	Pin Pad*	16	Security Scale

* The Pin Pad is customer specific, different models and positions are possible

- Different Hand Held Scanners may be used -
- Different Card Readers in different positions are possible

- Unpacking and Checking the System

Unpack the system and verify that the scope of delivery is identical to the information on the delivery ticket.

Should you notice any

- transport damages or
- discrepancies between package contents and delivery ticket or
- functional defects,

please inform your contracting parties or the branch office of Wincor Nixdorf immediately. Please indicate the number of your delivery ticket and delivery ticket position and serial number of the respective device.



It is absolutely necessary to check the function of the original equipment *before* you perform any changes (e.g. by installing an expansion card). Only then it is possible to accept a functional defect as a claim.



We recommend to save the original packaging for transport at a later time (protection from impact and shock).

Installing the Tower Line 150 in the Store

The BEETLE /iSCAN Tower Line 150 will be delivered on a pallet with a size in industry standard 1000mm x 1200mm.

First remove the wrapping paper.

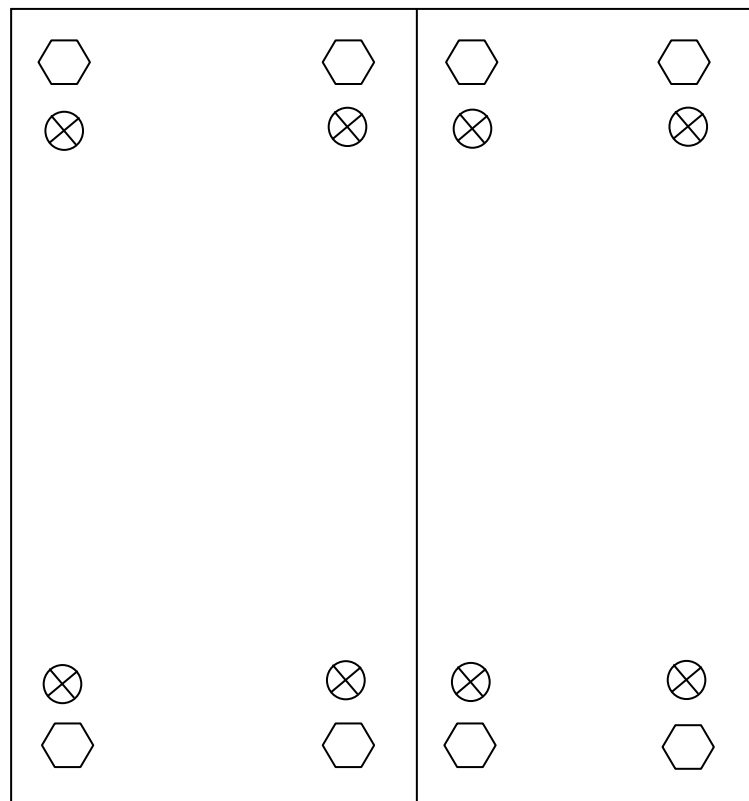
The device is fixed at the pallet with 8 screws. Another eight screws are to adjust the device at the designated site.



Caution! At first remove the fixing screws at the front side of the device.



To reach the screws in the back of the BEETLE /iSCAN Tower Line 150 you have to remove the back panels of each module (see next pages).



These screws are to adjust the device.



Remove these screws to tilt the BEETLE /iSCAN Tower Line from the pallet.



Caution! Always wear safety gloves and safety shoes with steel toe caps while transporting heavy appliances.



Caution! Tilt the device (max. 15°) very carefully with min. 2 persons at the edge of the pallet and set it up at the designated site. Ensure that the installation site has the required load-carrying capacity (400 kg).

Removing the Back Panel at the Scan Module bi-optical

Unlock the door and pull out the carrier completely. Remove the two screws fixing the cover.



Caution! After removing the screws close the device as far as possible to avoid an uncontrolled tilting of the system after removing the fixing screws at the rear side. Keep the carrier as close as possible.

After removing the screws at the rear side close the device at both sides and lock the front door before you tilt the BEETLE /iSCAN from the pallet.

Always remove the device with two persons and with the help of the ramp from the pallet.



Pull the cover forwards to the stop.



Lift up the back panel.



Mount the back panel in reverse order.

Removing the Back Panel at the Scan Module vertical



Caution! After removing the screws close the device as far as possible to avoid an uncontrolled tilting of the system after removing the fixing screws at the rear side. Keep the carrier as close as possible.

After removing the screws at the rear side close the device at both sides and lock the front door before you tilt the BEETLE /iSCAN from the pallet.

Always remove the device with two persons and with the help of the ramp from the pallet.

Unlock the door and pull out the carrier completely. Remove the two screws fixing the cover.



Pull the cover forwards to the stop. Remove the back panel upwards.



Mount the back panel in reverse order.

Removing the Back Panel at the Cash Module (iCASH 10/iCASH 15E)



Caution! After removing the screws close the device as far as possible to avoid an uncontrolled tilting of the system after removing the fixing screws at the rear side. Keep the carrier as close as possible.

After removing the screws at the rear side close the device at both sides and lock the front door before you tilt the BEETLE /iSCAN from the pallet.

Always remove the device with two persons and with the help of the ramp from the pallet.

Unlock the front door of the cash module and pull out the carrier completely.



Remove the two screws fixing the cover in it's position.



Pull out the cover forwards to the stop.



Remove the back panel upwards and remove the fixing screws from the pallet.

Removing the Back Panel at the Cash Module CINEO 6010



Caution! After removing the screws close the device as far as possible to avoid an uncontrolled tilting of the system after removing the fixing screws at the rear side. Keep the carrier as close as possible.

After removing the screws at the rear side close the device at both sides and lock the front door before you tilt the BEETLE /iSCAN from the pallet.

Always remove the device with two persons and with the help of the ramp from the pallet.

Unlock the front door of the cash module and pull out the carrier completely.



Remove the two screws fixing the cover in it's position.



Pull out the cover forwards to the stop.

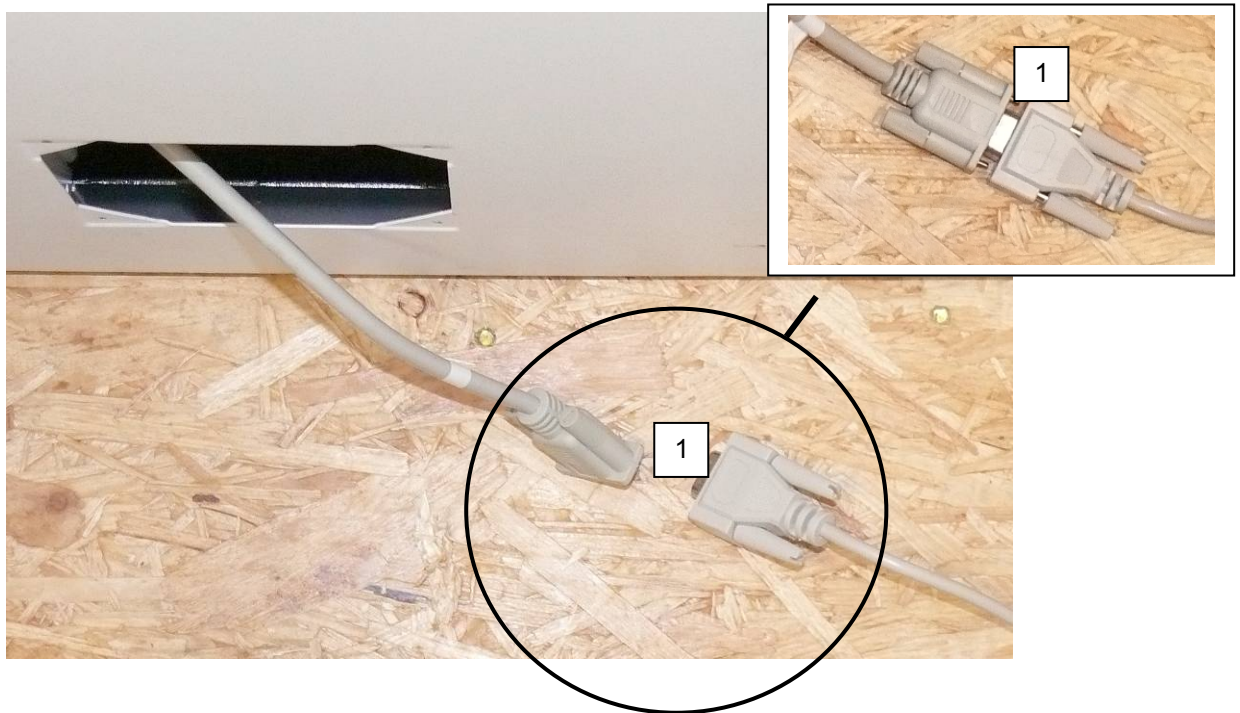


Remove the back panel upwards and remove the fixing screws from the pallet.

Installing the Security Scale

Unpack the security scale. Place it nearby the final installation place at the BEETLE /iSCAN Tower Line 150.

Remove the LAN/Power connection cover at the Scanning unit. Behind the cover you find the COM cable to connect the security scale. Plug the COM cable to the COM cable which you find in the security scale housing.



The security scale must be installed at the BEETLE /iSCAN Tower Line 150 with max. 4 screws (see picture below).

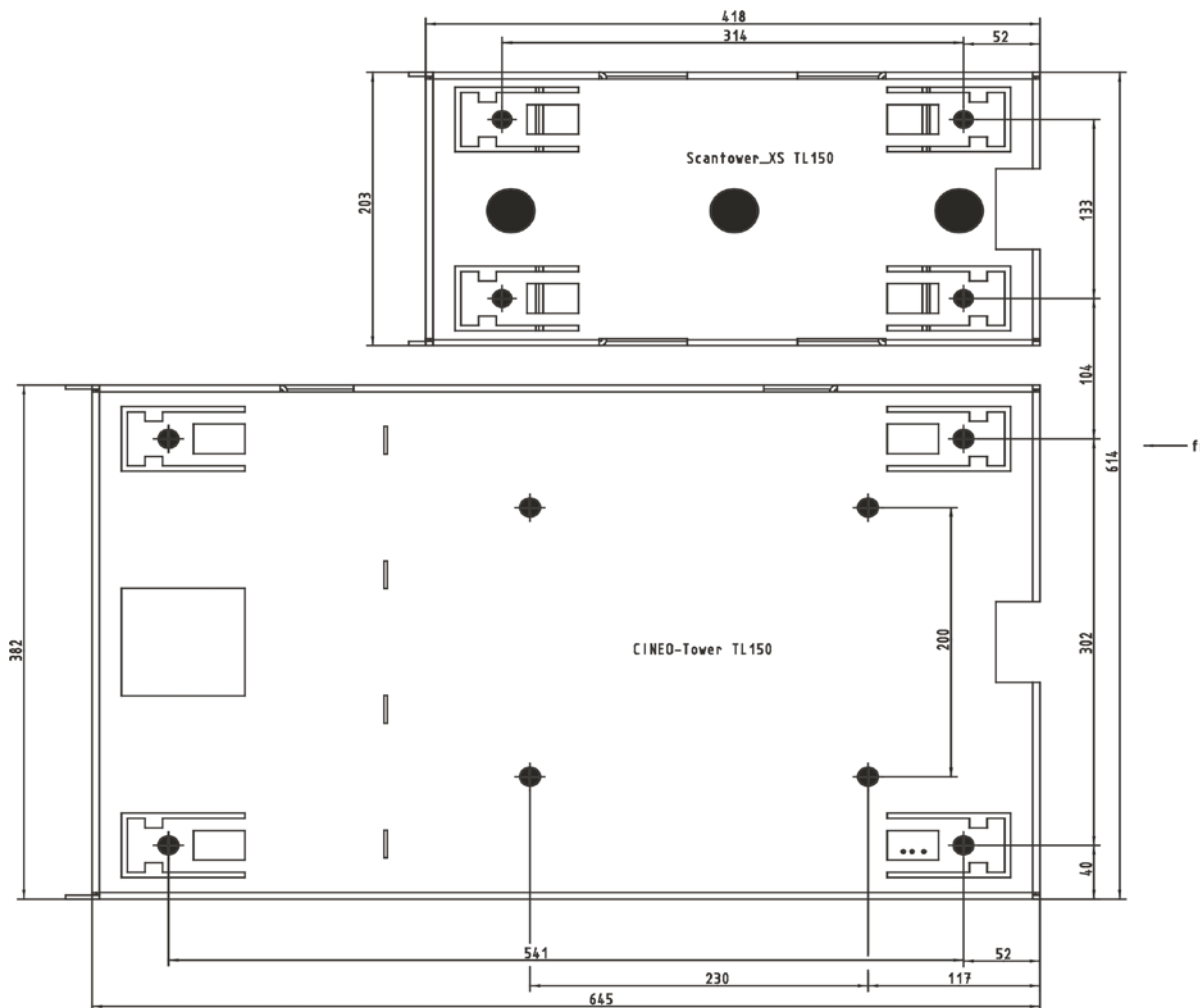


Put the cover and the bag holders on the security scale.



Caution! After mounting the security scale it must be adjusted by authorised personnel only.

Fixing the Device at the Floor



Opening the Cash Module 6010 (with safe)

Enter the key into the lock (1), turn it clockwise and open the front door.



Open the cash module (see page before). Enter the safe code (1), turn the locking/release handle clockwise (2) and open the safe door.



Closing the Safe

Close the safe door and turn the locking/release handle of the safe door counterclockwise as far as possible.

Push the green release lever at the right side of the safe unit up (1) and pull it out.



Now the screws to fix are reachable (next page).

Opening the Cash Module 6010 (no safe)



Only touch green the marked handles and knobs for moving parts.

Unlock the unit (1) and pull out the carrier completely.



Pulling out CINEO 6010

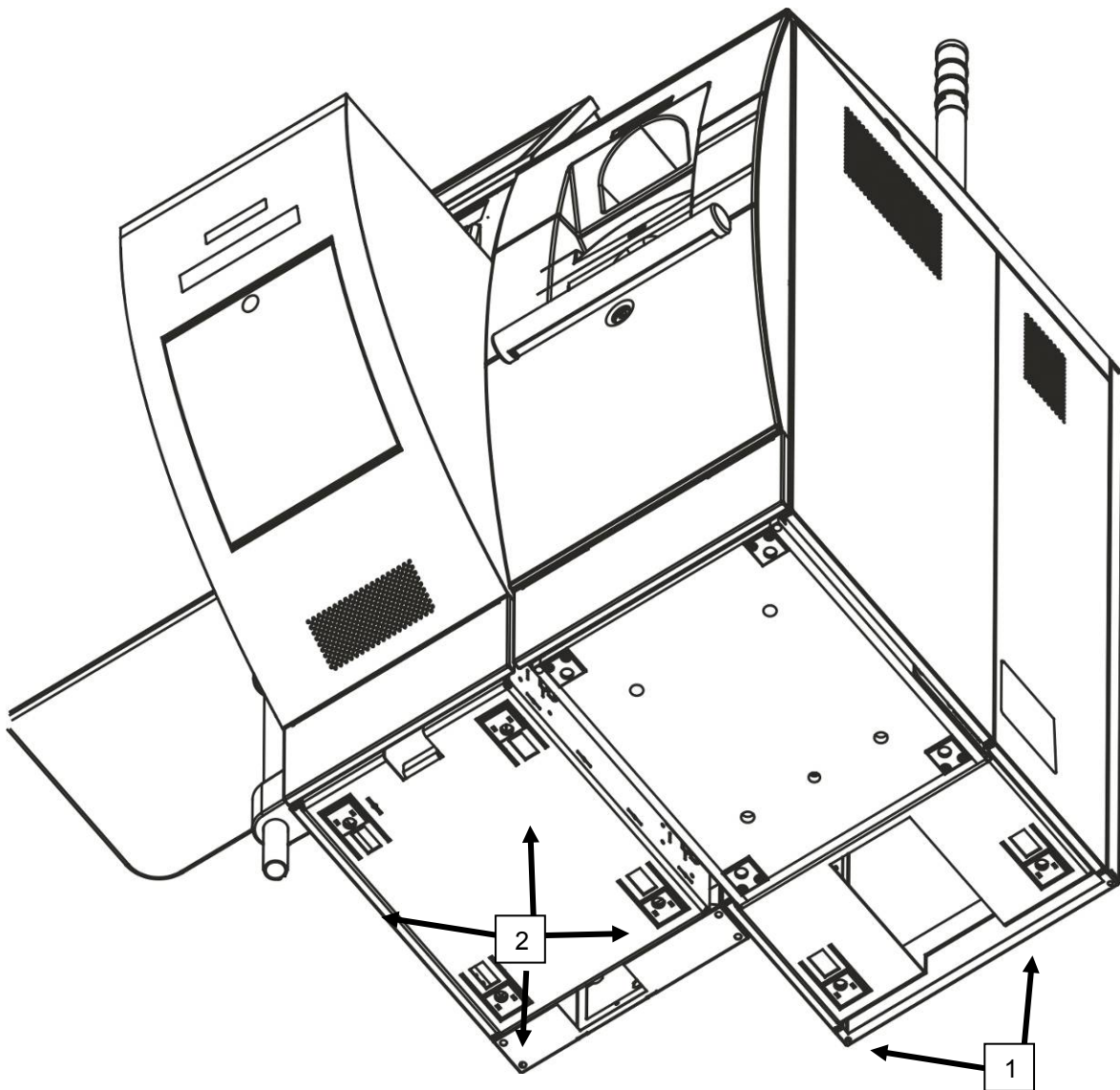
Open the front door (page). Pull the green lever upwards (1). Pull out the cassette carrier to the stop.



Straight alignment and fixing the Cash Tower CINEO 6010

The Cash Tower must be adjusted before the final fixing (max.1° tilting to front). See at the picture below, which screws are necessary to do that.

1. Adjust the Cash Tower CINEO 6010 (1)
2. Adjusting Points for bi-optical tower (2)



Removing the Transportation Locks

After unwrapping the system, remove the transportation locks from the following components (see arrows).

iCash10



iCash15



Coupon Box



Connecting the System

The delivered system is completely configured. There are just a few things to do, before starting up the BEETLE /iSCAN Tower Line 150.



A 16A fuse complying with IEC60127 (breaking capacity of 1500A) must be part of the building installation.

Start up

The power supply system must be equipped with separately guided protective earth conductor (PE). This kind of electricity system is known as TN-S network. Do not use PEN conductors!

Ratings of BEETLE /iSCAN Tower Line 150:

- 220 V-240 V, 50-60 Hz, 2,9A
- 110 V-120 V; 50-60 Hz; 3,5A

Find the rating of your device on the type label at the back side of the device.



A 16A fuse complying with IEC60127 (breaking capacity of 1500A) must be part of the building installation.



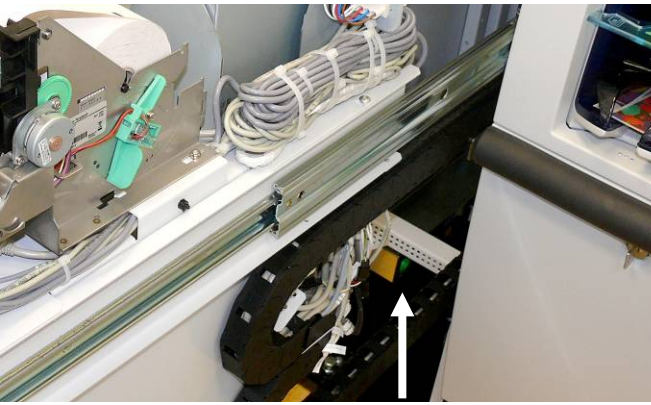


Caution! Check that the set nominal voltage of the appliance corresponds to the local mains voltage.

Power Connection and LAN Support

The BEETLE /iSCAN Tower Line 150 supports Ethernet 10/100 BASE-T local area network (LAN) communication protocol. The BEETLE terminal provides a female RJ-45 connection port for the LAN. A 6-foot LAN cable is provided with the system.

There are three possible positions to connect the BEETLE /iSCAN Tower Line 150 to the power supply: from the bottom, from the back side and from the side.

1	Connect the rubber connector to the socket outlet and the LAN cable to the LAN socket (sockets at the side of the device).	
2	Push the button at the power distributor to position 1. Scan Module (vertical): Open the device. Find the button at the bottom of the housing.	

	Scan Module (bi-optical): Open the device. Find the button at the bottom of the housing.	
3	iCash10 (Cash Module): Open the device. Press the “Power On” switch to the position 1.	
4	iCash15E (Cash Module): Remove the cover (arrow) carefully with a small screwdriver and start up the device (position1).	
5	CINEO (Cash Module with safe) Remove the cover (arrow) carefully with a small screwdriver and start up the device (position1).	

6	CINEO (Cash Module without safe) No action necessary!	
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* Deviations from illustration possible

After starting up the system, you will see the start screen of the operating system.

Disconnecting the System from the Mains

- At first shut down the system by the software application.
- Switching off the device is the same procedure like switching on but in reverse order.



Caution! To separate the device completely from power supply unplug the power cable.
UPS must switched off this too, to separate BEETLE /iSCAN Tower Line 150 from power completely.

Appendix

Further Documentation

You will find the „Hardware User Manual“ on the **Internet**:

http://www.wincor-nixdorf.com/internet/site_DE/DE/Support/Downloads/POS Lottery Systems/Manuals/BEETLE/BEETLE_node.html

The service documentation will be available on the Wincor Nixdorf Intranet only.

Cleaning Instructions

- Always **turn off the system** before cleaning.
- The glass surface of your Touch Screen should be cleaned with a mild, abrasive-free, commercially available glass cleaning product.
- All pH neutral materials (pH 6 to 8) are good for cleaning. Cleaners with pH values 9 to 10 are not recommended. Cleaning with water and isopropyl alcohol is possible as well.
- Do **not use** solvents containing acetic acid.
- Use a soft, fine-meshed cloth to clean the surface. Dampen the cloth slightly and then clean the screen.

Wrong maintenance may cause damages to the screen, which are not covered by guarantee or warranty.

Maintenance and Service

When carrying out work on the components and modules that carry an electrical charge, this equipment must first be disconnected from the power supply. Besides switching off the power switch on the power distributor, the safety plug must be disconnected from the power distributor.

Device Housing

Clean the housing with a vacuum cleaner or cloth. Eliminate damage to paint if necessary and possible.

Approved Cleaning Materials

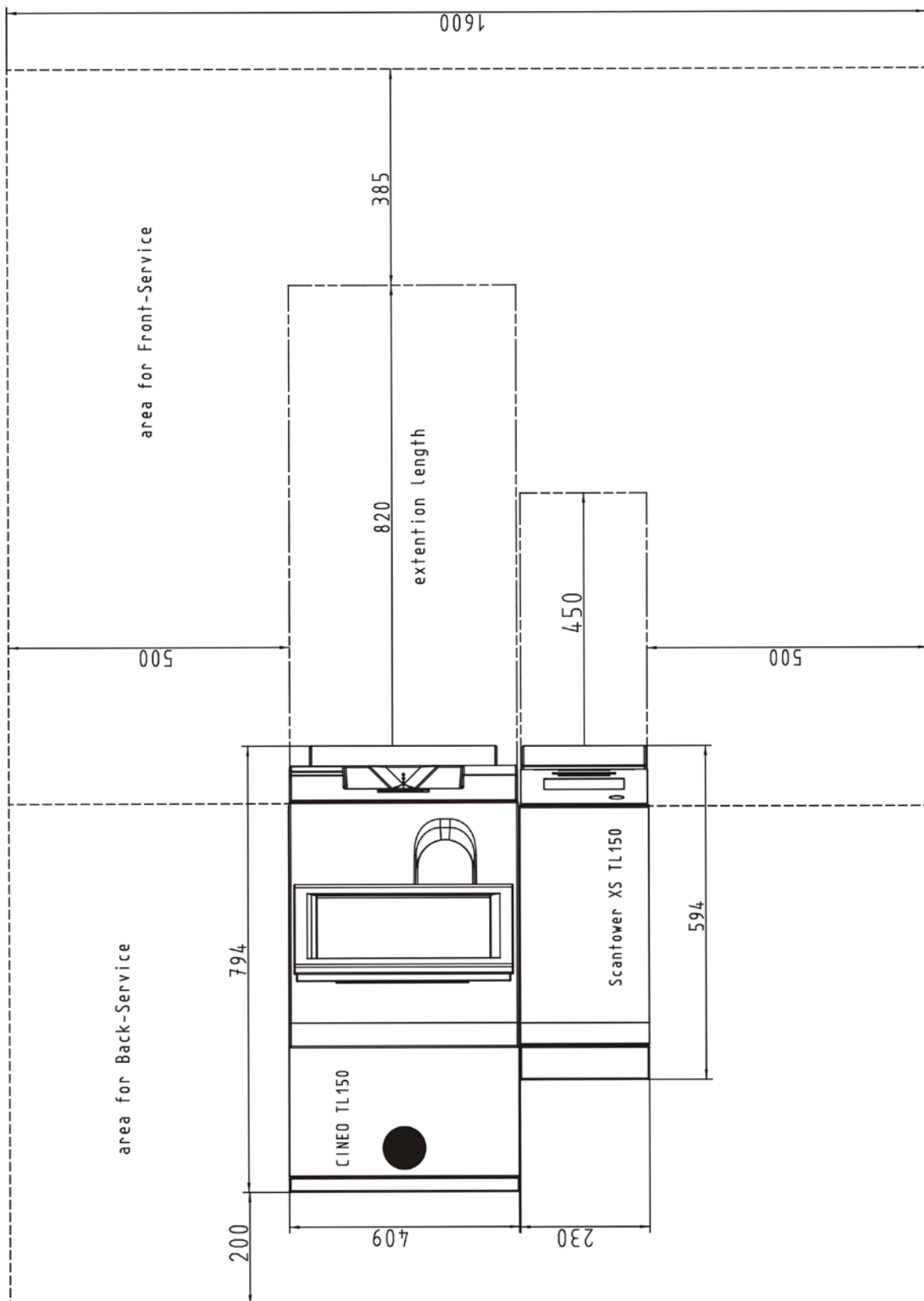
The items listed below can be ordered from Wincor Nixdorf branch office or your Wincor Nixdorf sales partner.

Product Name	Order Number	Explanations
Professionell cleaning set for EDP devices 100ml plastic cleaner in a pump bottle 50 dust cloths 10 keyboard swabs for places difficult to reach	01750097335	For cleaning and maintaining keyboards and varnished and plastic-coated housing
Damp cleaning cloths Dispenser box with 100 cloths	01750097332	For cleaning and maintaining delicate EDP devices, keyboards and housing
Dry cleaning cloths Antistatic and fluff free (Pack with 300 cloths)	01750097334	For cleaning display panes
Compressed air spray PRESSAIR 400ml bottle without a valve, 70cm hose	01750097331	Cleaned compressed air, FCKW-free, for removing loose dust and dirt particles
Cloth with ISOPROPYL 1000 pieces	01750104065	Pure isopropyl alcohol for cleaning display
Cleaning card	01750016388	For cleaning magnetic heads and chip contacts in ID card readers

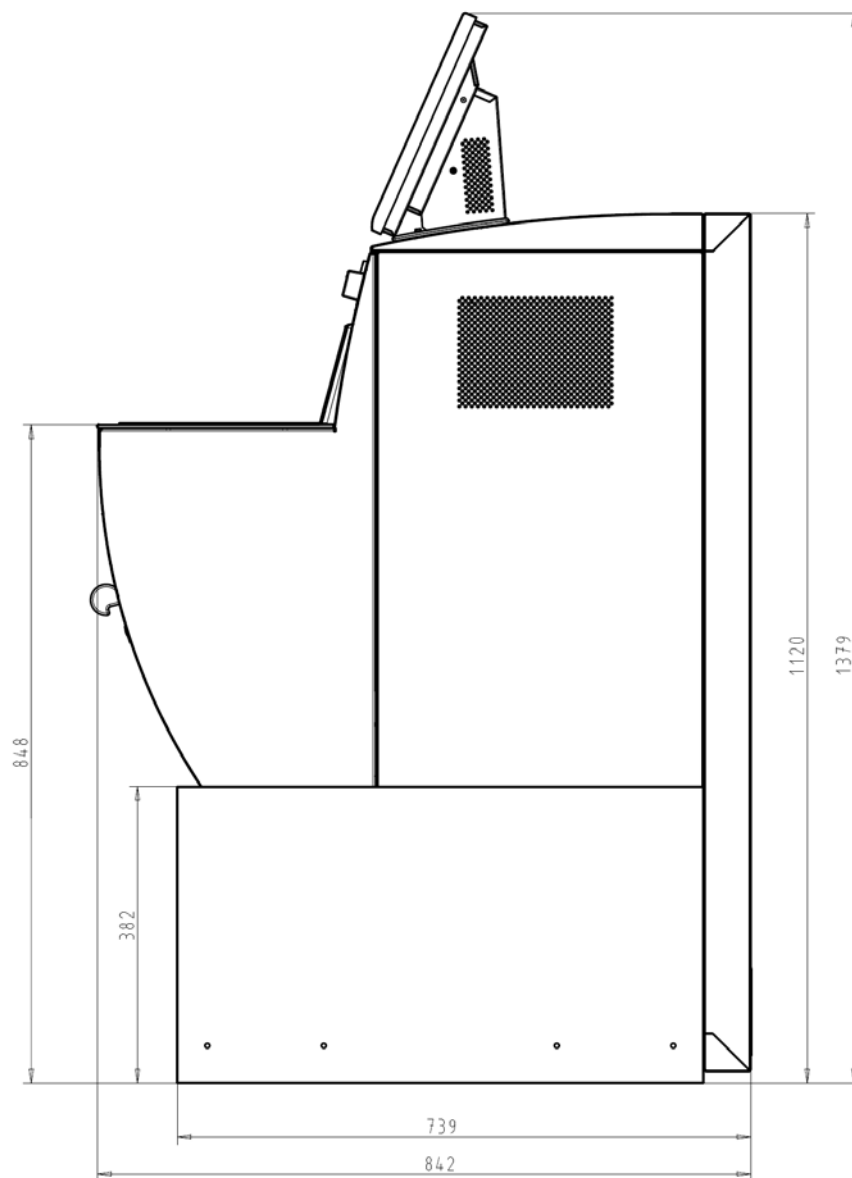
Please note the **manufacturer's specifications** on the packaging and on the information sheet included in the packaging. The product may be damaged or soiled if materials are used that are not approved or if they are used improperly.

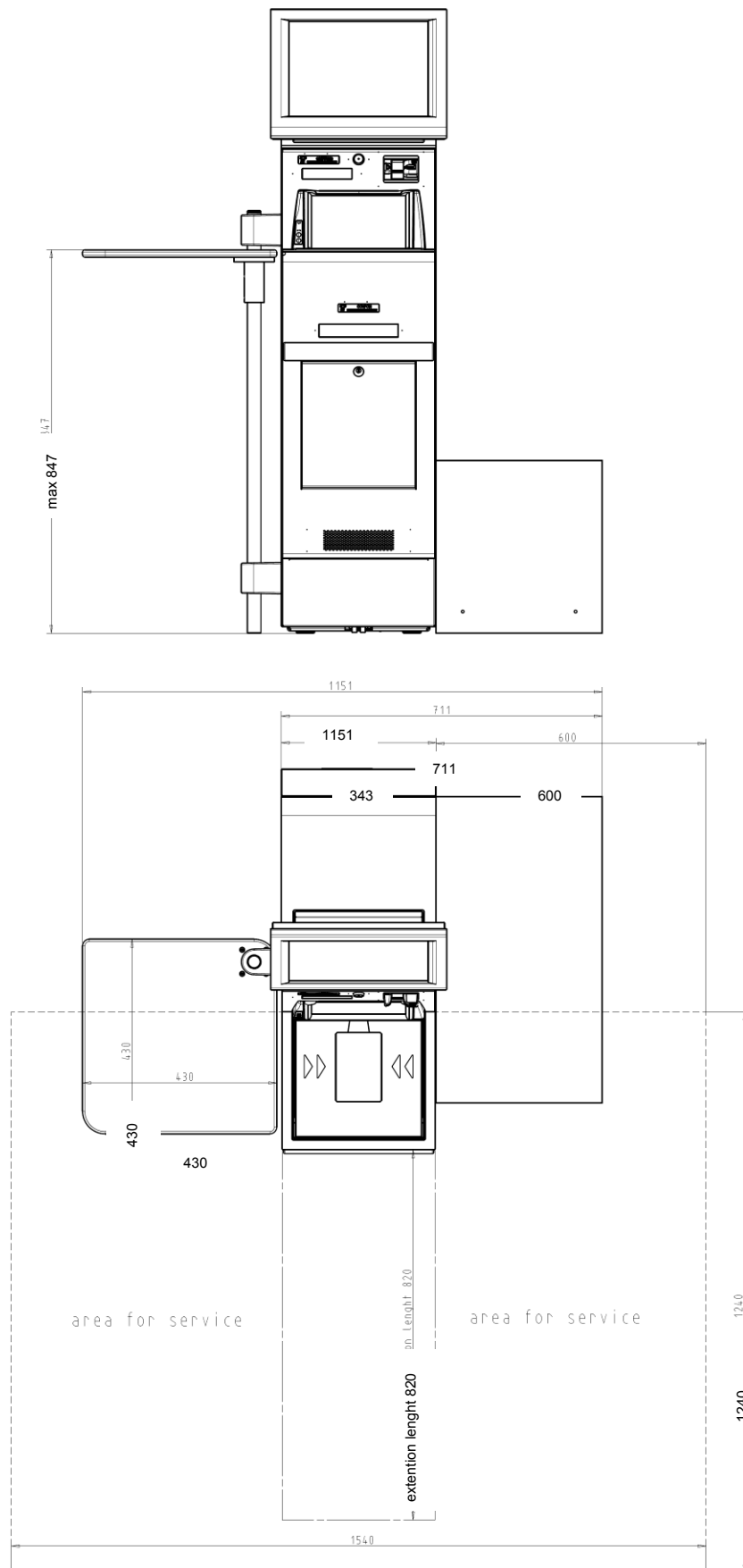
BEETLE /iSCAN Tower Line 150 – Dimensions

BEETLE /iSCAN Tower Line 150 Service Area

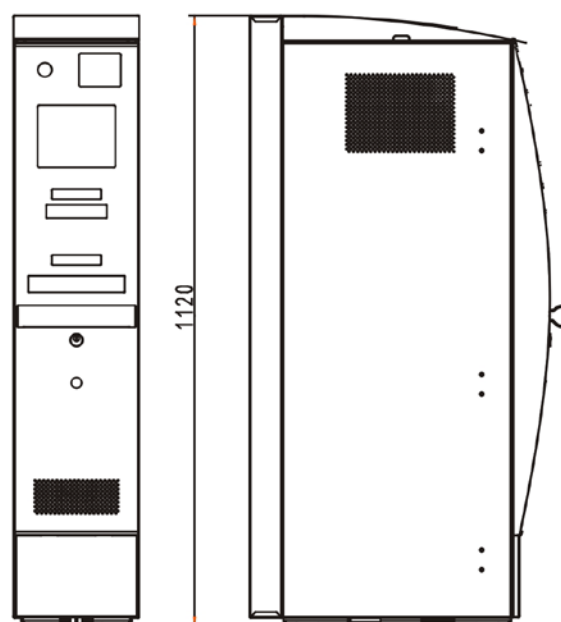
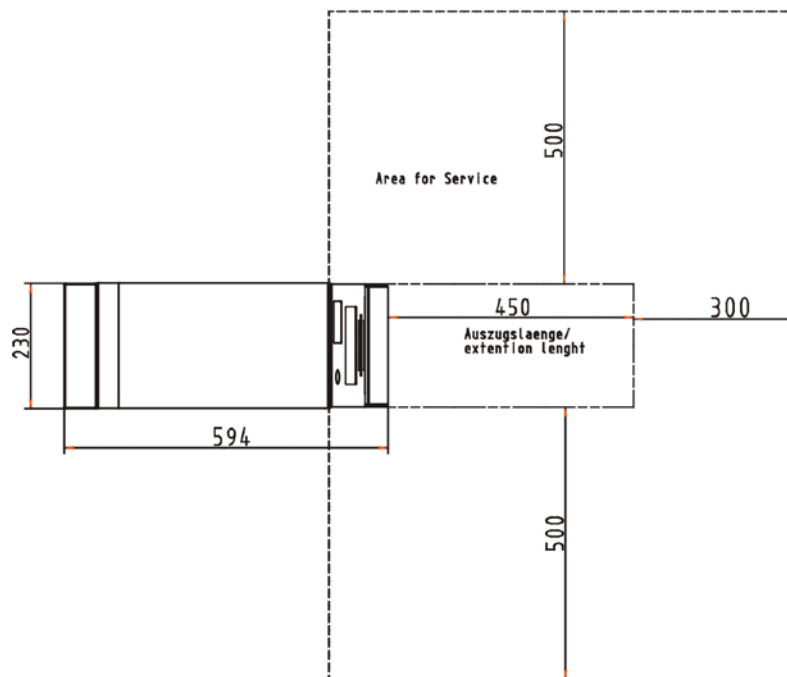


BEETLE /iSCAN Tower Line 150 bi-optical non Cash

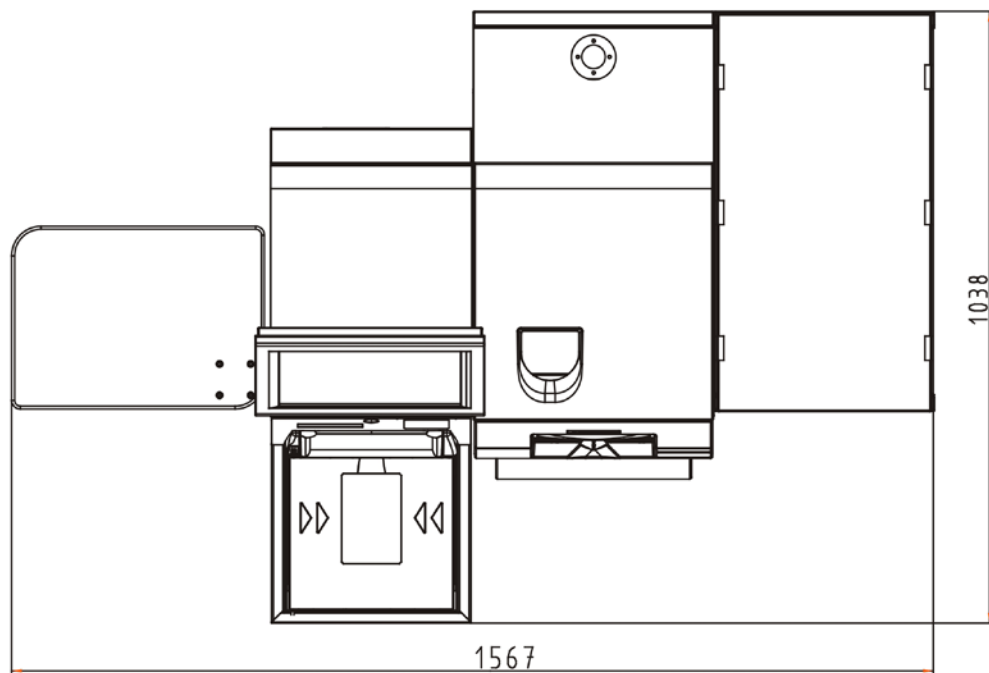
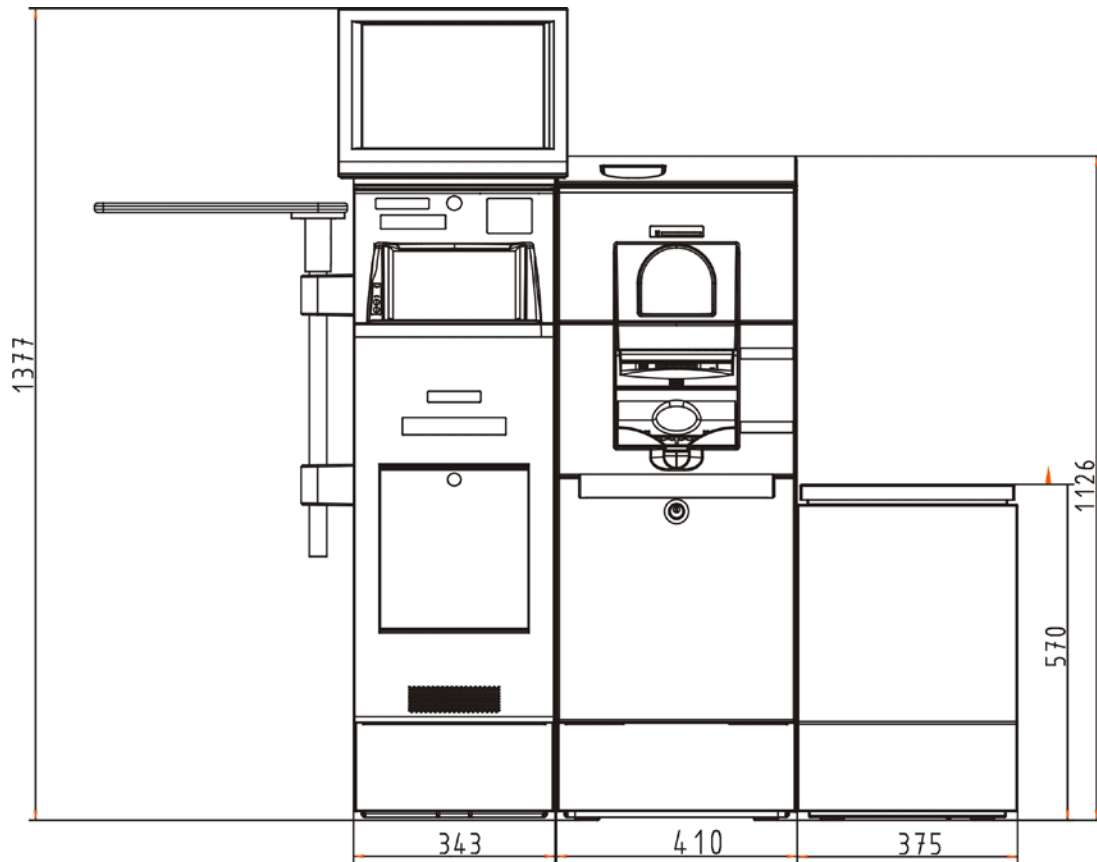


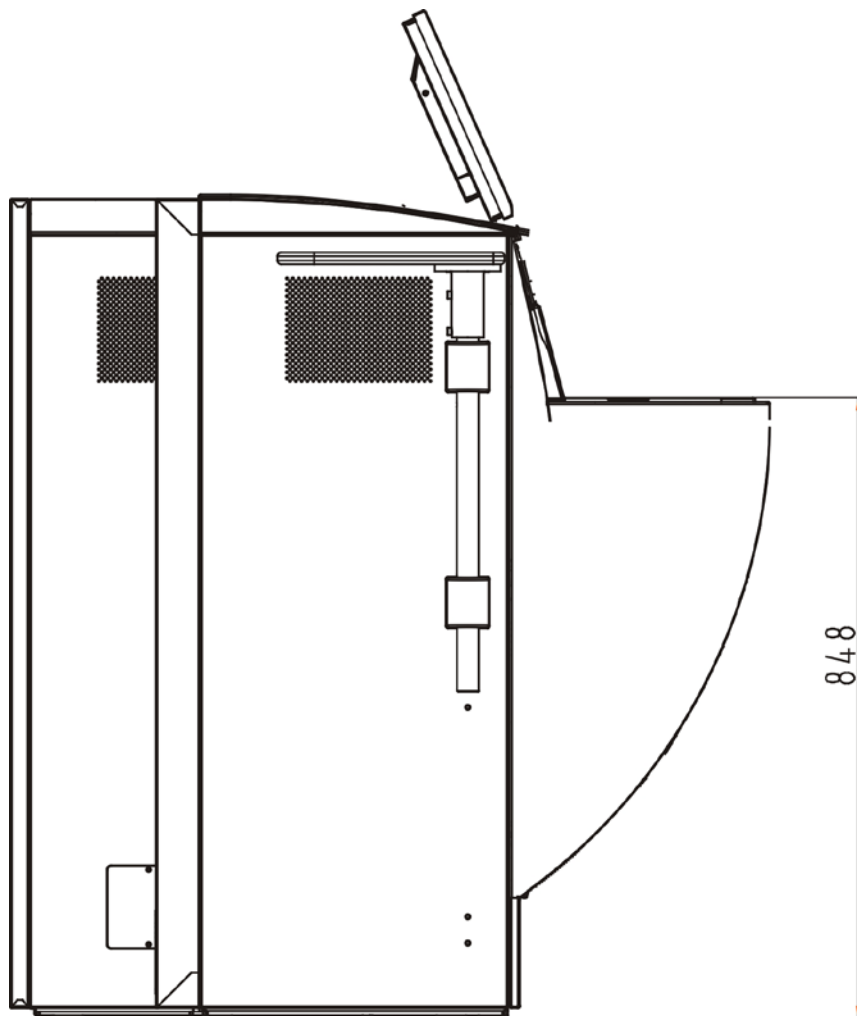


BEETLE /iSCAN Tower Line 150 vertical non Cash



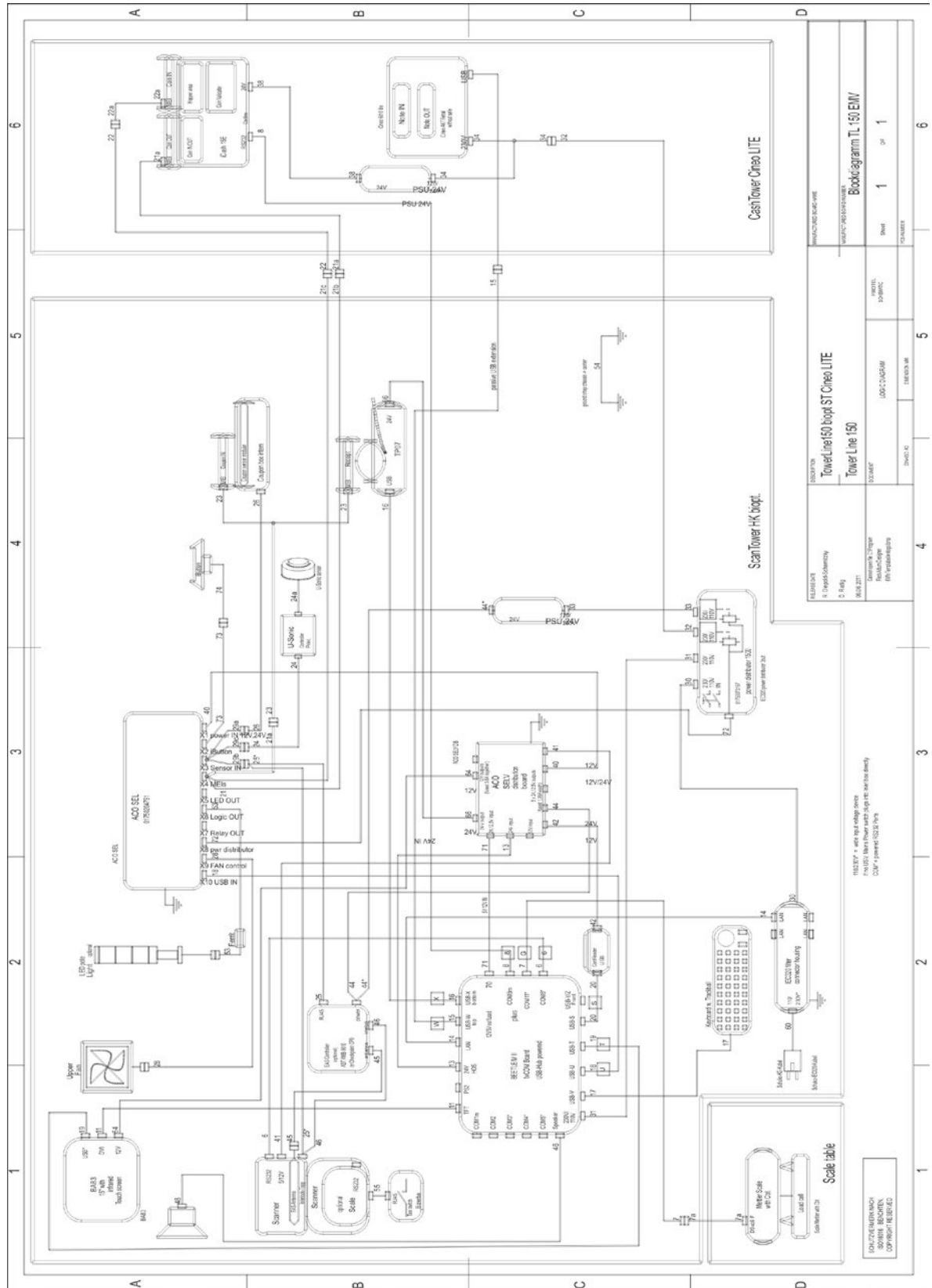
BEETLE /iSCAN Tower Line 150 CINEO 6010



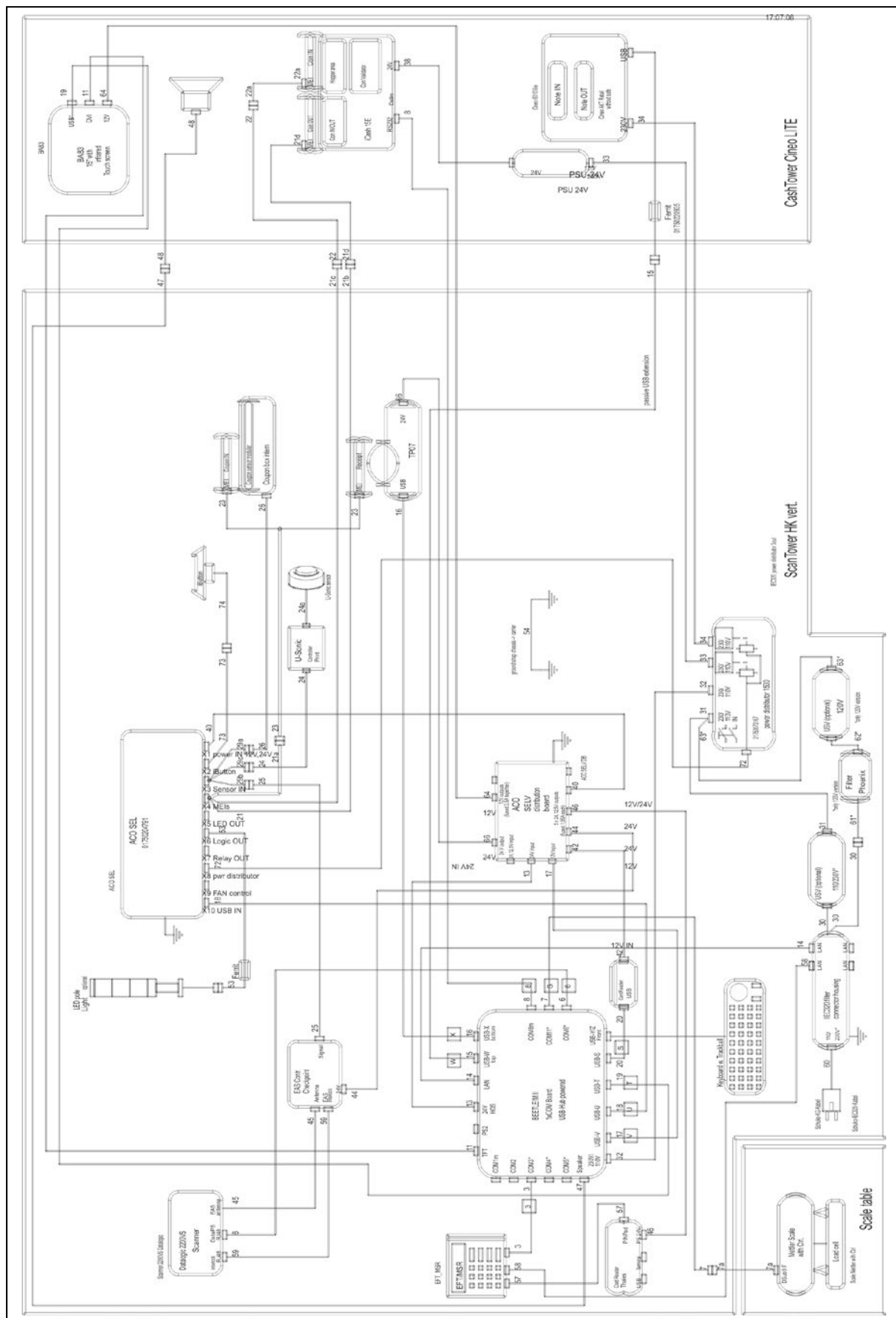


Block Diagram

BEETLE /iSCAN Tower Line 150 bi-optical



BEETLE /iSCAN Tower Line 150 vertical



Environmental Conditions

Operating conditions	
Ambient temperature:	5 °C – 35 °C
Humidity:	5% r.h. (1 g/m ³) – 85% r.h. (25 g/m ³)
Temperature change:	0.5 K/min (max. 7.5K/30 min)
Barometric pressure:	70 kPa – 106 kPa
Installation environments with long periods of sunshine should be avoided.	
Storage conditions	
Ambient temperature:	5 °C – 40 °C
Humidity:	5% r.h. (1 g/m ³) – 85% r.h. (25 g/m ³)
Temperature change:	0.5 K/min (max. 7.5K/30 min)
Transport conditions	
Ambient temperature:	-25 °C – 60 °C
Humidity:	15% r.h. (1 g/m ³) – 98% r.h. (32 g/m ³)
Temperature change:	-25° C / 25° C

Weights

TL 150 Vertical	approx. 75 kg
TL 150 Bioptical	approx. 95 kg
TL 150 CINEO no safe	approx. 160 kg
TL 150 CINEO safe	approx. 292 Kg

Certifications of the Manufacturer



This device complies with the requirements of EMC directive 2004/108/EC with regard to "Electromagnetic Compatibility" and 2006/95/EC, "Low Voltage Directive".

Therefore, you will find the CE mark on the device or on its packaging.

Devices without integrated UPS according class B.

Devices with UPS according class A.

Important: Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note on Radio Interference Suppression

All secondary appliances that are connected to an appliance must be equipped with radio interference suppression in accordance with EC directive 2004/108/EC. Products that fulfill this requirement are accompanied by an appropriate manufacturers certificate bear the CE-symbol or the radio protection symbol. Products that do not fulfill these requirements may only be operated with specific permission of the relevant authorities.

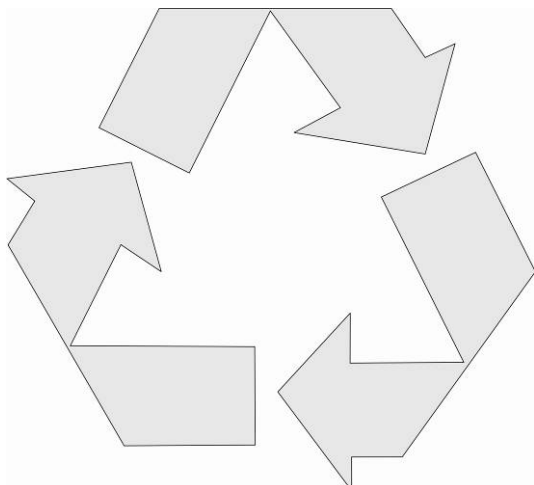
FCC-Class A Declaration

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications not authorized by the manufacturer may void users authority to operate this device. This class A digital apparatus complies with Canadian ICES-003.

Cet appareil numerique de la classe A est conforme à la norme NMB-003 du Canada.

Recycling the BEETLE /iSCAN Tower Line 150



The BEETLE /iSCAN Tower Line 150 was designed according to the Wincor Nixdorf standard "Environmentally Conscious Product Design and Development".

The BEETLE /iSCAN Tower Line 150 is manufactured without the use of CFCs and CCHs and is manufactured to a great extent of materials and components which are recyclable.

For recycling purposes do not attach any additional adhesive labels to the device.

Wincor Nixdorf disposes of old devices in an environmentally responsible manner at a recycling center that is ISO 9001 and ISO 14001 certified, as is the entire company.

Follow your local regulations on the disposal of toxic waste (such as the system ribbons).

Your Wincor Nixdorf vendor will answer any questions you have concerning returns recycling, and disposal of our products.

Wincor Nixdorf International GmbH
D-33094 Paderborn
Order No.: **01750159234D**